

Fig. 1

Select T1.A, T2.B From T1, T2, T3
 Where T1.C=99 AND T2.D='george' AND T3.E=66
 AND T1.F=T2.F AND T2.G = T3.G;

$\Pi_{T1.A, T2.B}$

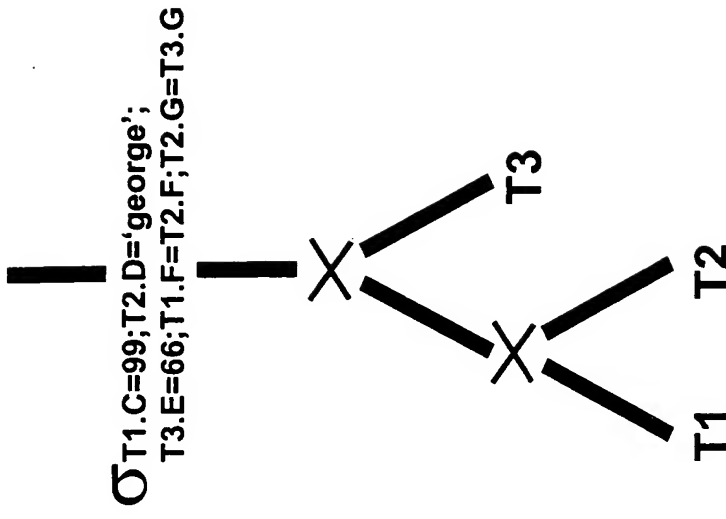


FIG. 2

Select T1.A, T2.B From T1, T2, T3
 Where T1.C=99 AND T2.D='george' AND T3.E=66
 AND T1.F=T2.F AND T2.G = T3.G;

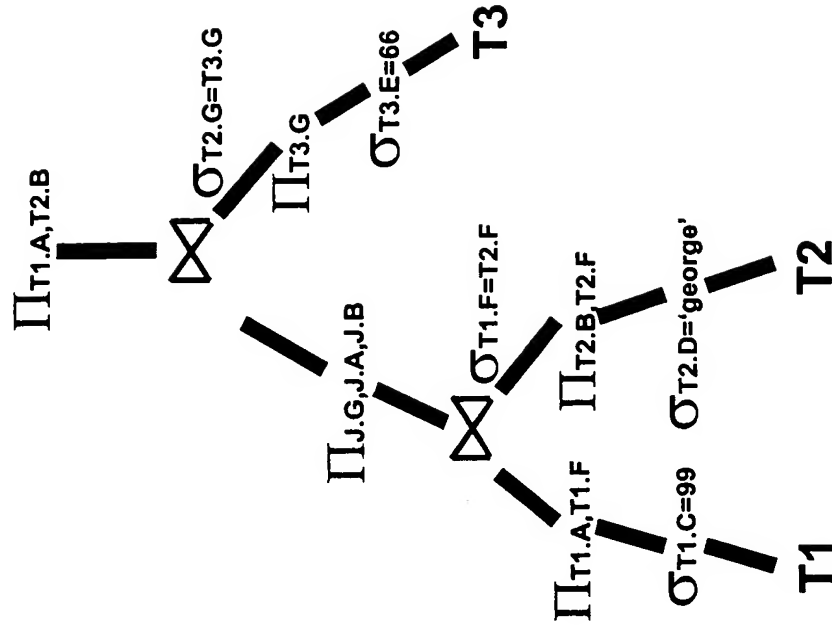
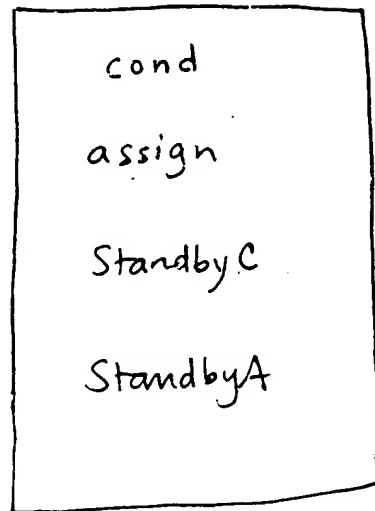


FIG. 3

T_i



σ_{cfi}

π_{cfsi}

FIG. 4

1005999-1000

FIG. 5

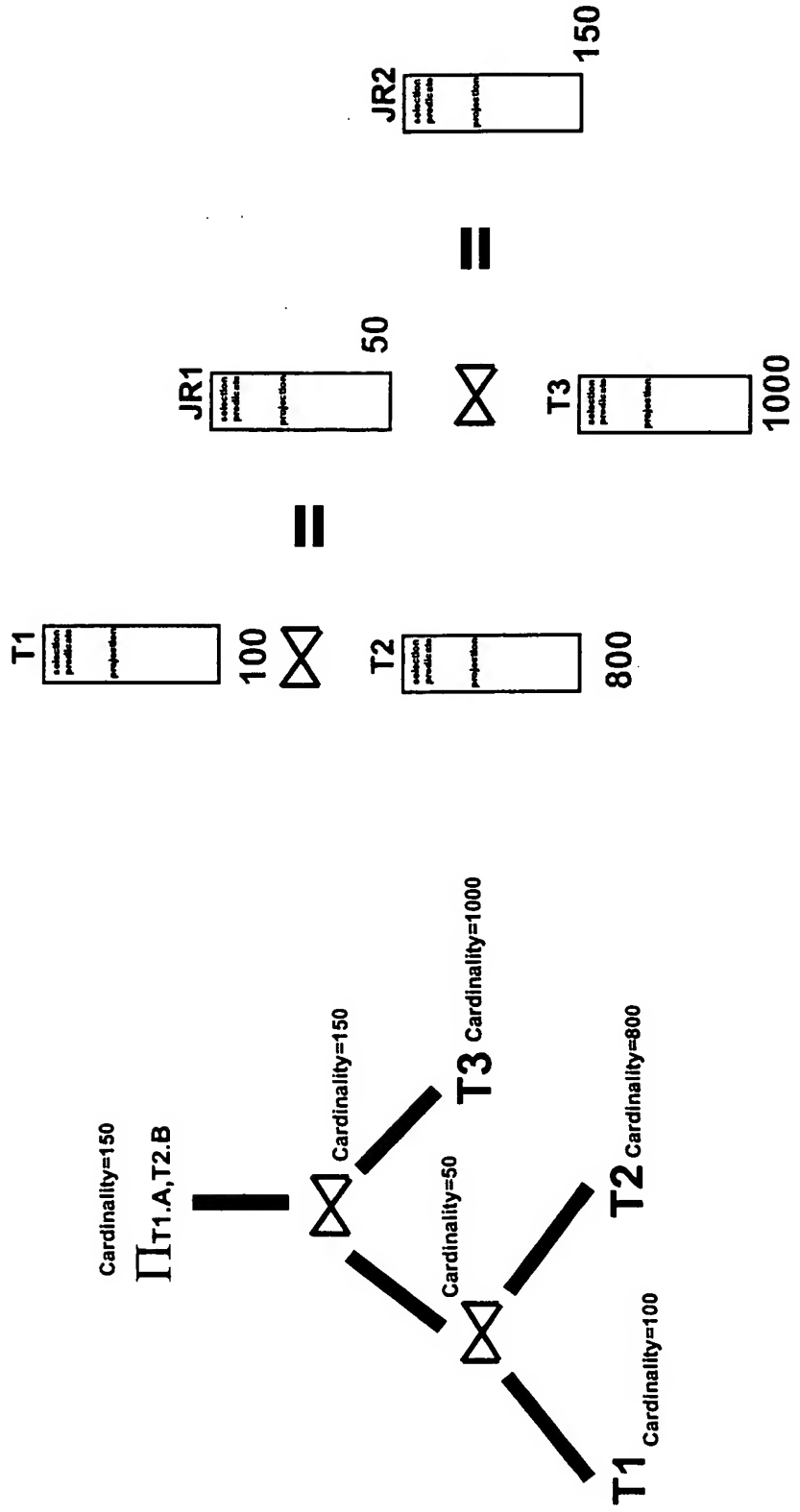


FIG. 6
FOOT-OUT

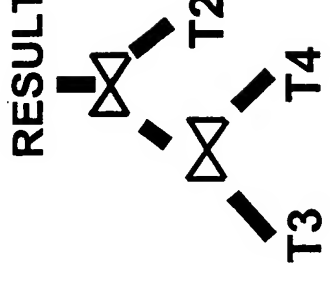
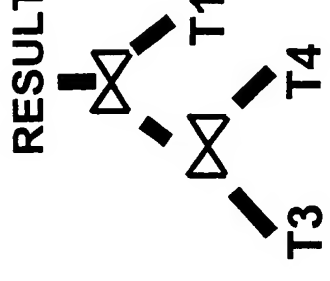
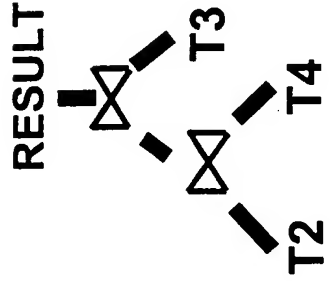
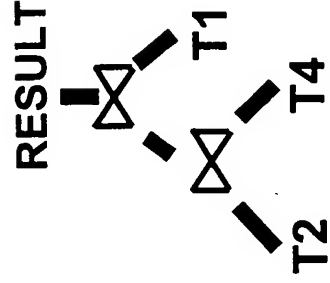
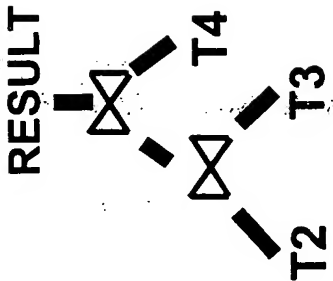
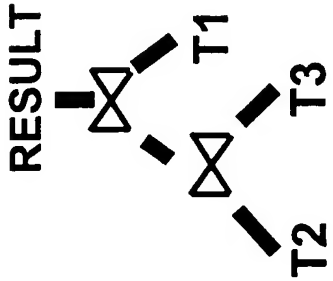
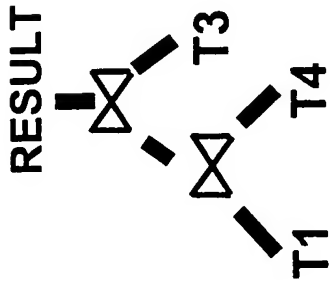
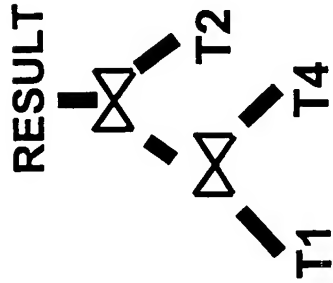
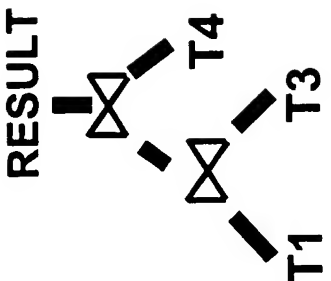
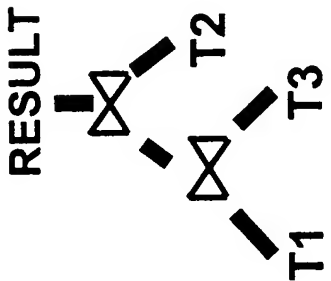
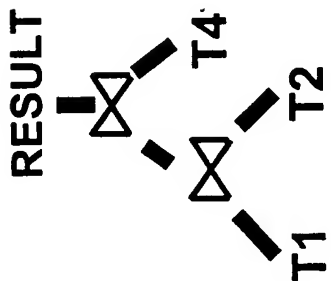
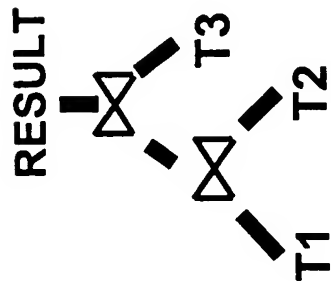


FIG. 7

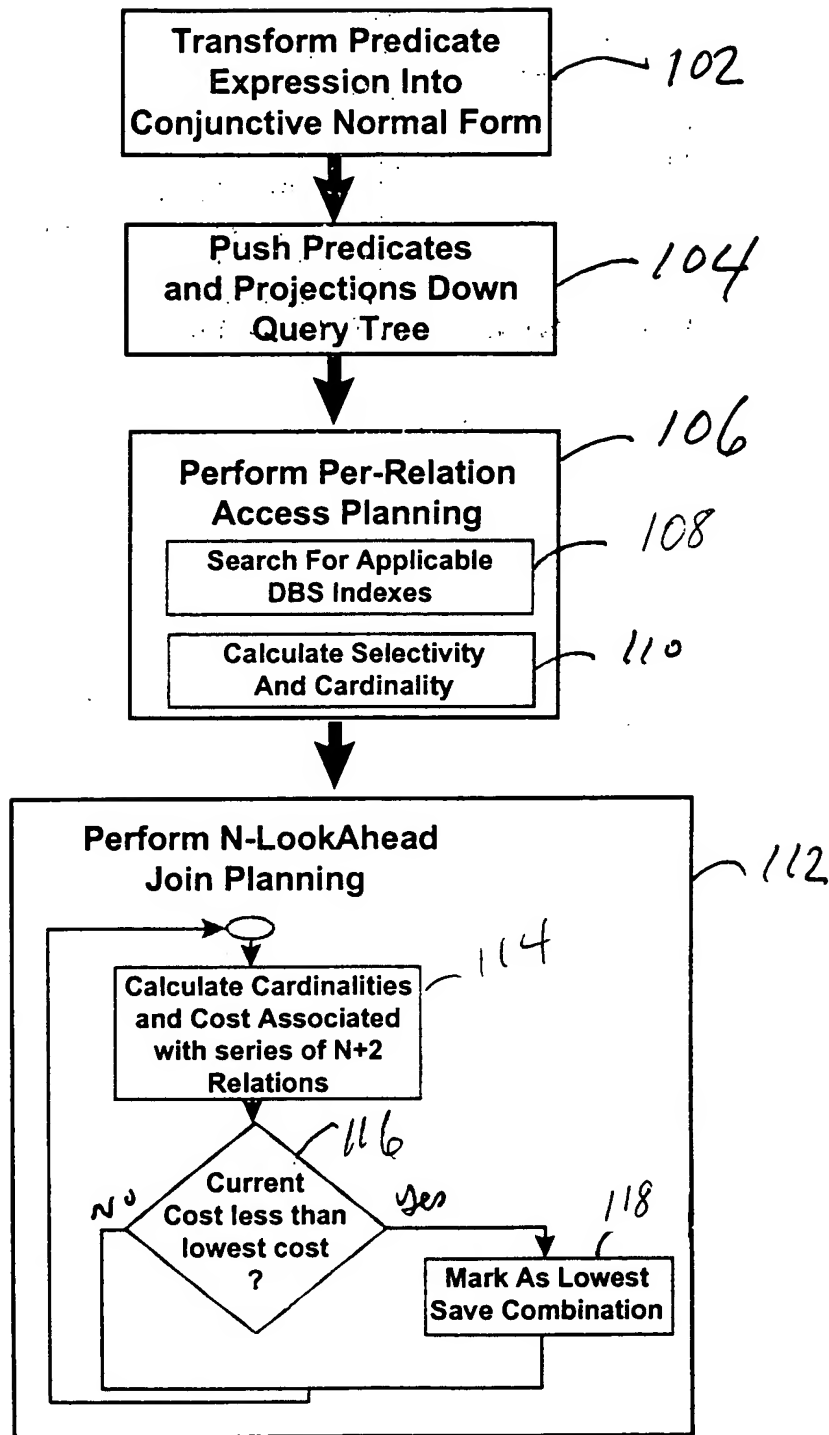


FIG. 7

105880-102301

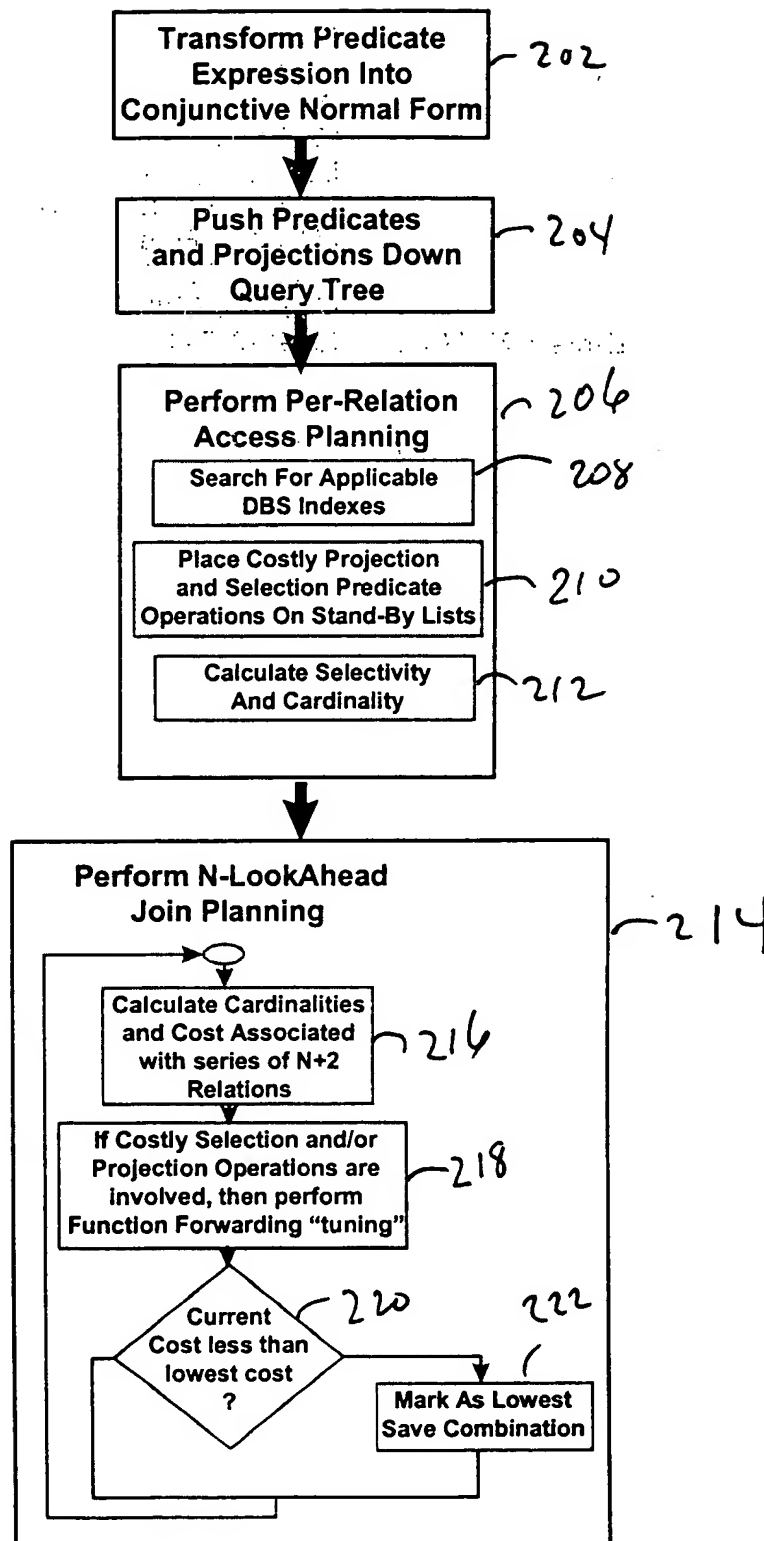


Fig. 8

Select T1.A, T2.B, T3.Video.Colorize() From T1, T2, T3, T4
 Where T1.face = IMAGE(\url\myface.jpg) AND T2.D='george'
 AND T4.Audio = AUDIO(\url\georgeharrison.wav)
 AND T1.F=T2.F AND T2.G = T3.G AND T1.H = T4.H
 AND T2.K=T4.K;

\prod T1.A, T2.B, T3.Video.Colorize()

σ T1.face=IMAGE(\url\myface.jpg); T2.D='george';
 T4.Audio=AUDIO(\url\georgeharrison.wav);
 T1.F=T2.F; T2.G=T3.G; T1.H=T4.H; T2.K=T4.K

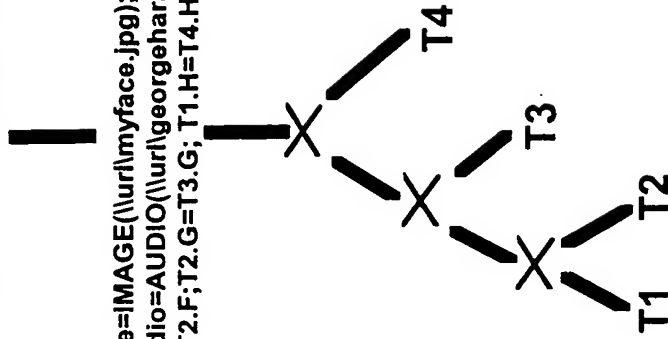
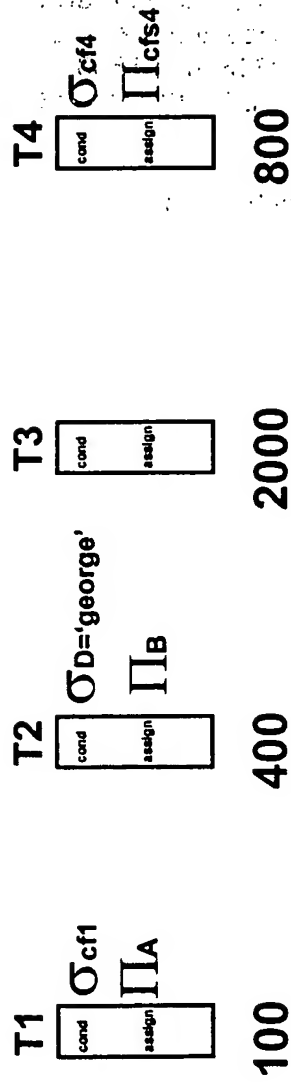


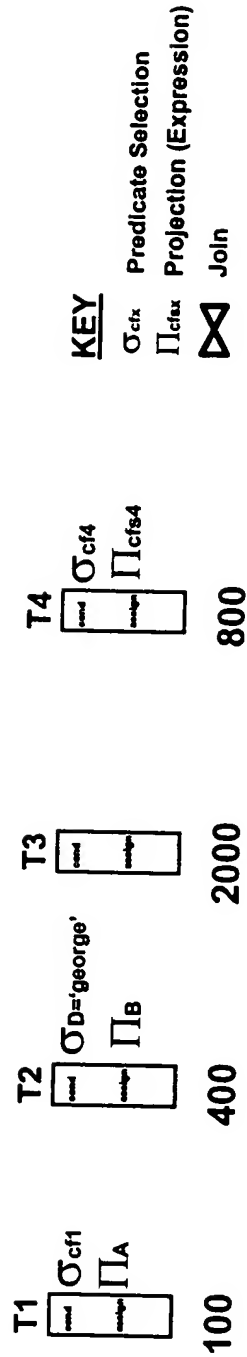
FIG. 9

Select T1.A, T2.B, T4.Video.Colorize() From T1, T2, T3, T4
 Where T1.face = IMAGE(\\url\\myface.jpg) AND T2.D='george'
 AND T4.Audio = AUDIO(\\url\\georgeharrison.wav)
 AND T1.F=T2.F AND T2.G = T3.G AND T1.H = T4.H
 AND T2.K=T4.K;

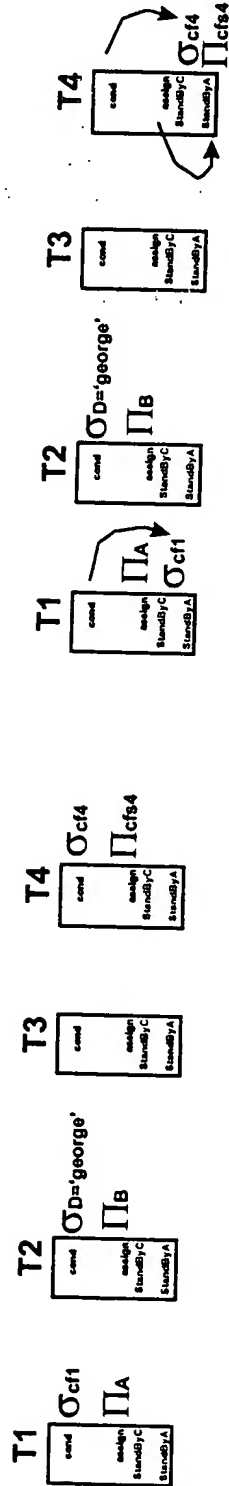


T1.face = IMAGE(\\url\\myface.jpg)	σ_{cf1}
T4.Video.Colorize()	Π_{cfs4}
T4.Audio = AUDIO(\\url\\georgeharrison.wav)	σ_{cf4}

FIG. 10



Exception Case : If Index Defined On Costly Predicate
Then Execute Costly Predicate In Place

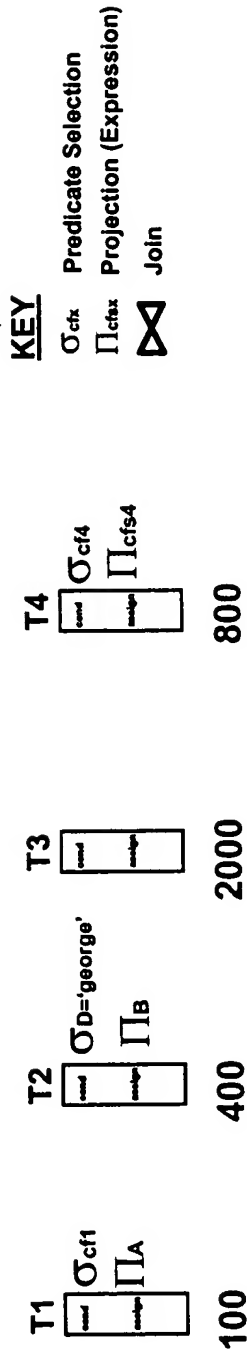


(Early On Within Access Planning Module)

STEP 0 : Start

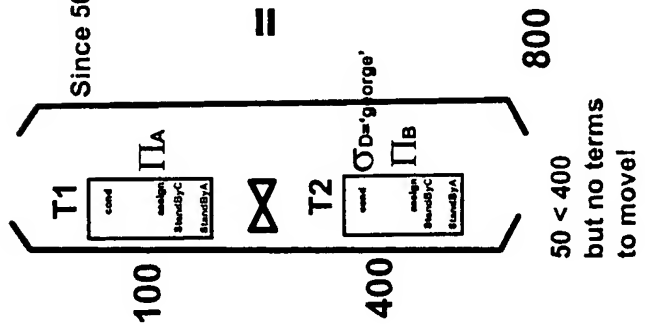
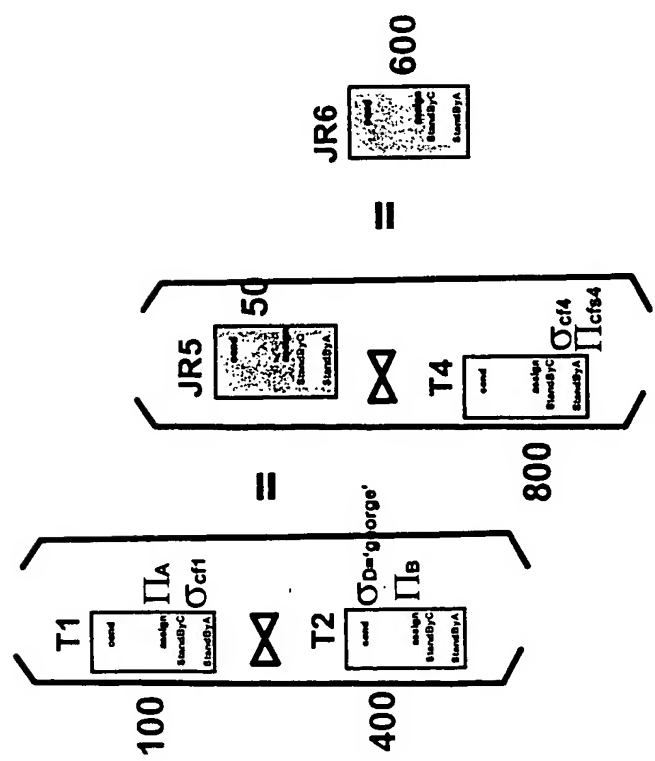
**STEP 1 : Move All Costly Functions To
Their Respective StandBy Lists**

Fig. 11



((1,2), 4)

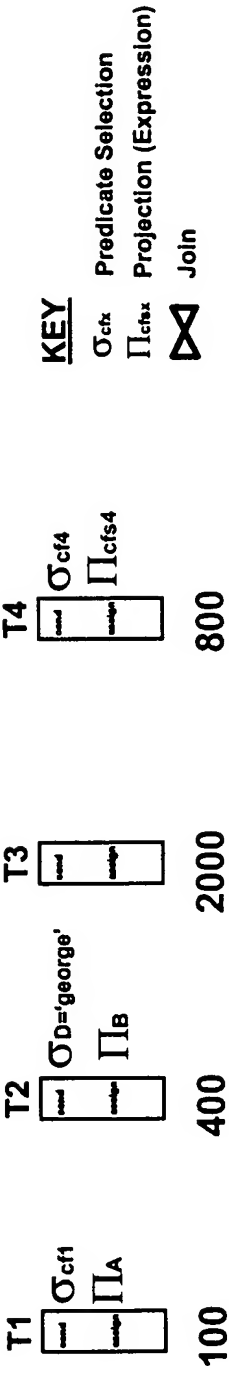
((1,2), 4)



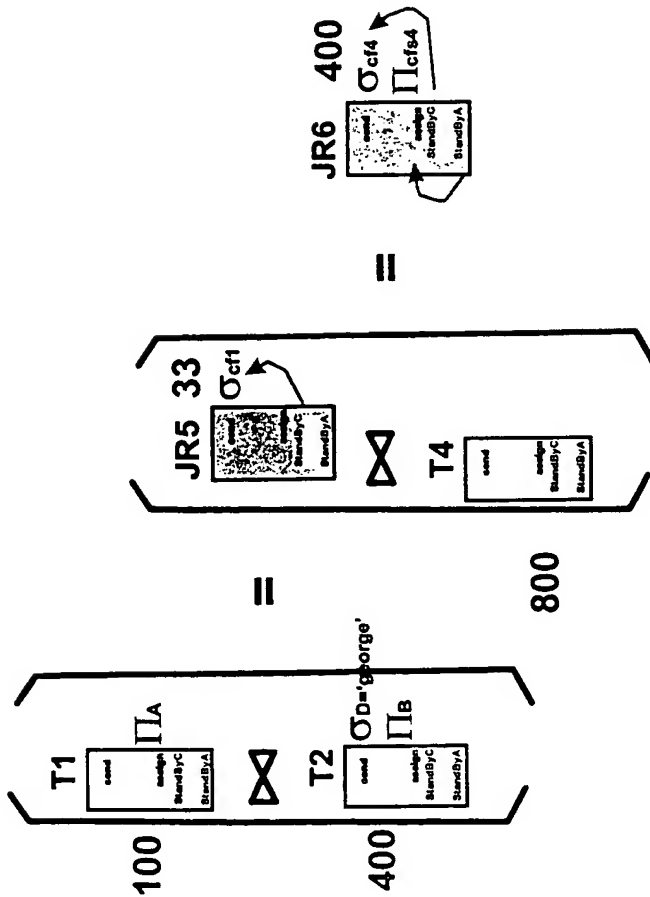
STEP 2 : Calculate Access, Join Costs And All Cardinalities As Currently Done. (Ignoring Terms On StandBy)

STEP 3 : Examine Cardinalities For The "Triplet" and Move Costly Functions Toward Lowest Cardinality.

(Triplet Costing Within LookAhead Module)



((1,2), 4)



Repeat This Process
For Every Triplet
Containing Costly Funcs

F16, 13

(Triplet Costing Within LookAhead Module)

**STEP 4 : Move Terms From StandBy Lists
To Active Lists And Calculate New Join
Cardinalities And "Tuned" Cost.**